

CLAIMS

What is claimed is:

- 1 1. A system comprising:
2 a handheld computer including a first application program to maintain
3 a first database, and a second application program to enable a user to access
4 said first database and change records in said first database according to
5 features selected by the user; and
6 a host computer system including a synchronization program to
7 provide a synchronization of information on said first database and
8 information on a second database maintained by a server.
- 1 2. The system of claim 1, wherein said synchronization program
2 maintains a map file of checksum values to determine which records are new
3 and which records have changed since previous synchronization.
- 1 3. The system of claim 1, wherein said synchronization program is
2 configured to update dirty flags maintained by said first application program
3 to reflect changes made during synchronization between said handheld
4 computer and said server.
- 1 4. The system of claim 1, wherein said handheld computer is a
2 personal digital assistant.
- 1 5. The system of claim 1, wherein said first application program is a
2 Personal Information Manager and said first database is an address book
3 database.
- 1 6. The system of claim 5, wherein said second application program is a
2 telephone management application program to enable a user to select
3 telephone service features for those contacts that appear in the address book
4 database.
- 1 7. The system of claim 6, wherein said telephone service features
2 selectable by a user includes at least one of call waiting, call forwarding, call
3 blocking, caller ID block, distinctive ring and anonymous call reject.

1 8. The system of claim 1, wherein said host computer system further
2 comprises a Personal Information Manager to maintain records in a second
3 address book database.

1 9. A method comprising:
2 providing a first application program on a handheld computer to
3 maintain a first database;
4 providing a second application program on a handheld computer to
5 enable a user to access said first database and change records in said first
6 database according to features selected by the user; and
7 using a host computer system to synchronize information on said
8 handheld computer with information maintained by a server.

1 10. The method of claim 9, wherein said using a host computer to
2 synchronize information further comprises:
3 reading records of said first database from said handheld computer;
4 determining which records of said first database have been modified;
5 reading modified records of a second database maintained by a server;
6 updating records of said second database to reflect changes made to
7 said modified records of said first database; and
8 updating records of said first database to reflect changes made to said
9 modified records of said second database.

1 11. The method of claim 9, further comprising maintaining a map file
2 of checksum values, each checksum value corresponds to a respective record
3 of said first database, said checksum values useful in determining which
4 records are new and have changed.

1 12. The method of claim 9, further comprising updating dirty flags
2 maintained by said first application program to reflect changes made during
3 synchronization between said handheld computer and said server.

1 13. The method of claim 9, wherein said handheld computer is a
2 personal digital assistant.

1 14. The method of claim 9, wherein said first application program is a
2 Personal Information Manager and said first database is an address book
3 database.

1 15. The method of claim 9, wherein said second application program is
2 a telephone management application program to enable a user to select
3 telephone service features for those contacts that appear in the address book
4 database.

1 16. The method of claim 15, wherein said telephone service features
2 selectable by a user includes at least one of call waiting, call forwarding, call
3 blocking, caller ID block, distinctive ring and anonymous call reject.

1 17. The method of claim 9, wherein said host computer system further
2 comprises a Personal Information Manager to maintain records in a second
3 address book database.

1 18. A machine-readable medium that provides instructions, which
2 when executed by a processor, cause said processor to perform operations
3 comprising:

4 reading records of a first database on a handheld computer;
5 determining which records of said first database have been changed;
6 reading records of a second database maintained by a server;
7 determining which records of said second database have been
8 changed;

9 updating records of said second database to reflect changes made to
10 records of said first database; and

11 updating records of said first database to reflect changes made to
12 records of said second database.

1 19. The machine-readable medium of claim 18, wherein operations
2 further comprise maintaining a first map file of checksum values, each
3 checksum value of said first map file corresponds to a respective record of
4 said first database, said checksum values are used in determining which
5 records have changed.

1 20. The machine-readable medium of claim 19, wherein operations
2 further comprise maintaining a second map file of checksum values, each
3 checksum value of said second map file corresponds to a respective record of
4 said second database, said checksum values are used in determining which
5 records have changed.

1 21. The machine-readable medium of claim 18, wherein operations
2 further comprise updating dirty flags maintained by said first application
3 program to reflect changes made during synchronization between said
4 handheld computer and said server.

1 22. A handheld computer comprising:
2 a first application to maintain a first database;
3 a second application to enable a user to access said first database and
4 change a record in said first database according to features selected by the
5 user; and
6 a wireless communications link with a server, wherein said hand held
7 computer is configured to communicate information associated with said
8 features selected by the user to said server over said wireless communications
9 link.

1 23. The handheld computer of claim 22, wherein said first application
2 is a Personal Information Manager and said first database is an address book
3 database.

1 24. The handheld computer of claim 23, wherein said second
2 application is a telephone management application to enable a user to select
3 telephone service features for those contacts that appear in said address book
4 database.

1 25. The handheld computer of claim 24, wherein said telephone
2 service features selectable by the user includes at least one of call waiting, call
3 forwarding, call blocking, caller ID block, distinctive ring and anonymous call
4 reject.

1 26. The handheld computer of claim 22, wherein said handheld
2 computer is a personal digital assistant.